

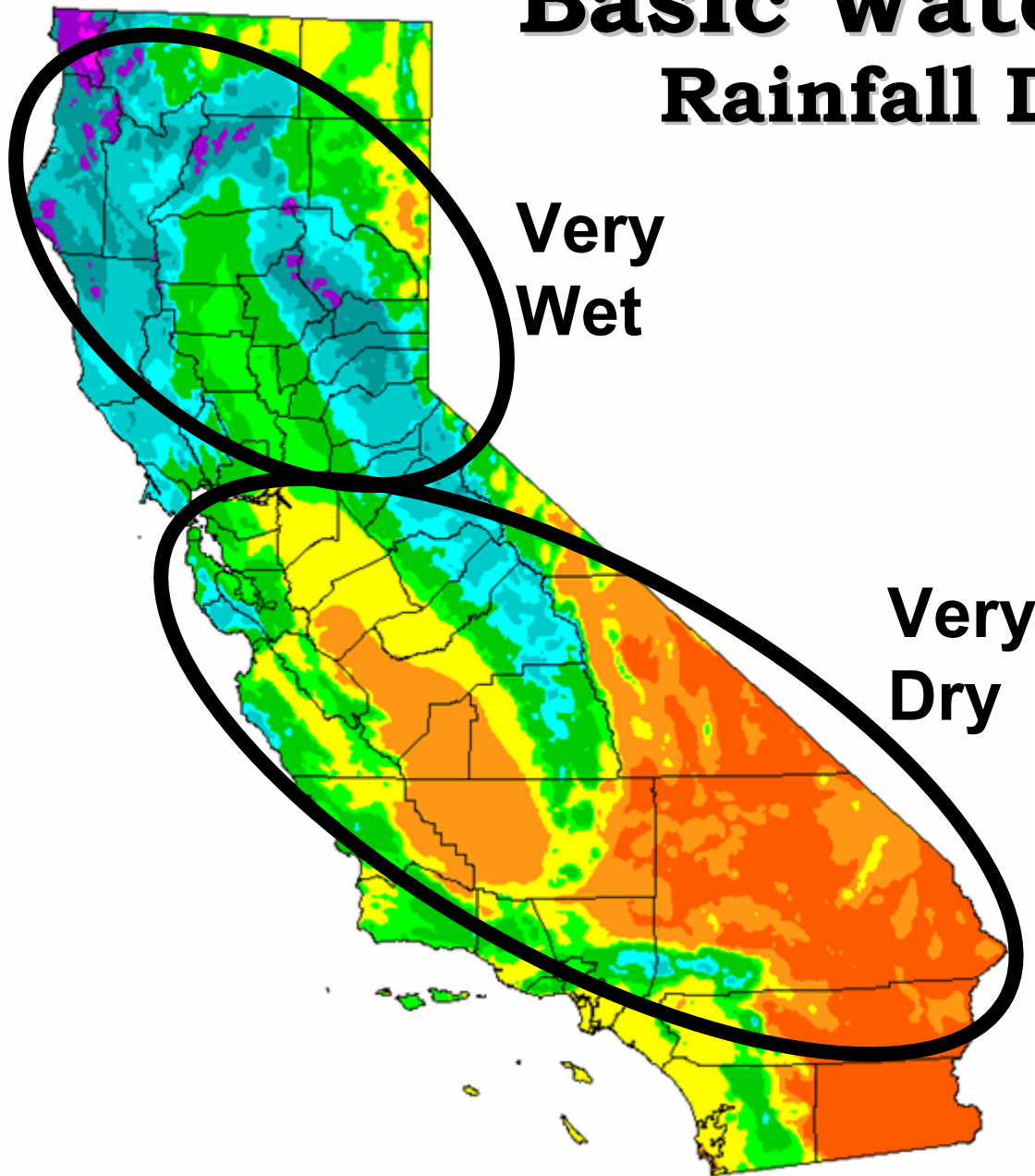


CALIFORNIA
BAY - DELTA

AUTHORITY

Basic Water Dilemma

Rainfall Distribution



California's Water Development



Los Angeles Aqueduct

Hetch Hetchy (1934) &
Mokelumne (1929) Aqueducts

Colorado River Aqueduct
(1941)

Central Valley Project (1943)
and other Federal
Developments

State Water Project (1960)



CALFED Program Area



12/19/2003



Importance of the Bay-Delta System



- Drinking Water for 22 Million Californians

- 750 Plant & Animal Species

- 80% of the State's Commercial Salmon Fisheries



- \$27 Billion Agricultural Industry



- California's Trillion Dollar Economy



Defining the Bay-Delta Conf



California's Bay-Delta is an ecosystem in decline from decades of competing demands.



Water supplies are increasingly unreliable.



Water quality continues to degrade, making it difficult and expensive to meet drinking water standards.



Delta levee failures threaten agricultural, urban and environmental uses.



Headlines

SAN FRANCISCO

The Examiner.

Smelt over
Endangered

CONTRA COSTA TIMES

FRIDAY
June 18, 1999

The Sacramento Bee

Protection of

By Nancy Vogel
Bee Staff Writer

Efforts to protect a small threatened fish have suddenly blown into a crisis that could disrupt water supplies to San Joaquin Valley farms as soon as next week and to the Silicon Valley later this summer, federal and state water officials said Thursday.

For the past month, federal biologists

have forced pump less would from Delta, Calif., to keep being killed.

The situation when the pump is ready last because an

fresnoBee.com

NEAR SMELTDOWN: A LITTLE FISH CAUSES A BIG WATER CRISIS IN THE DELTA.

June 26, 1999



December 1994
Bay-Delta Accord



June 2000
Framework Announced



August 2000
*Record of Decision Signed;
CALFED Program
Implementation Begins*



2002
Governance Bill Signed



**2008 Completion of Stage 1
First Seven Years**

*Foundation for Long Term Program
Direction Completed*

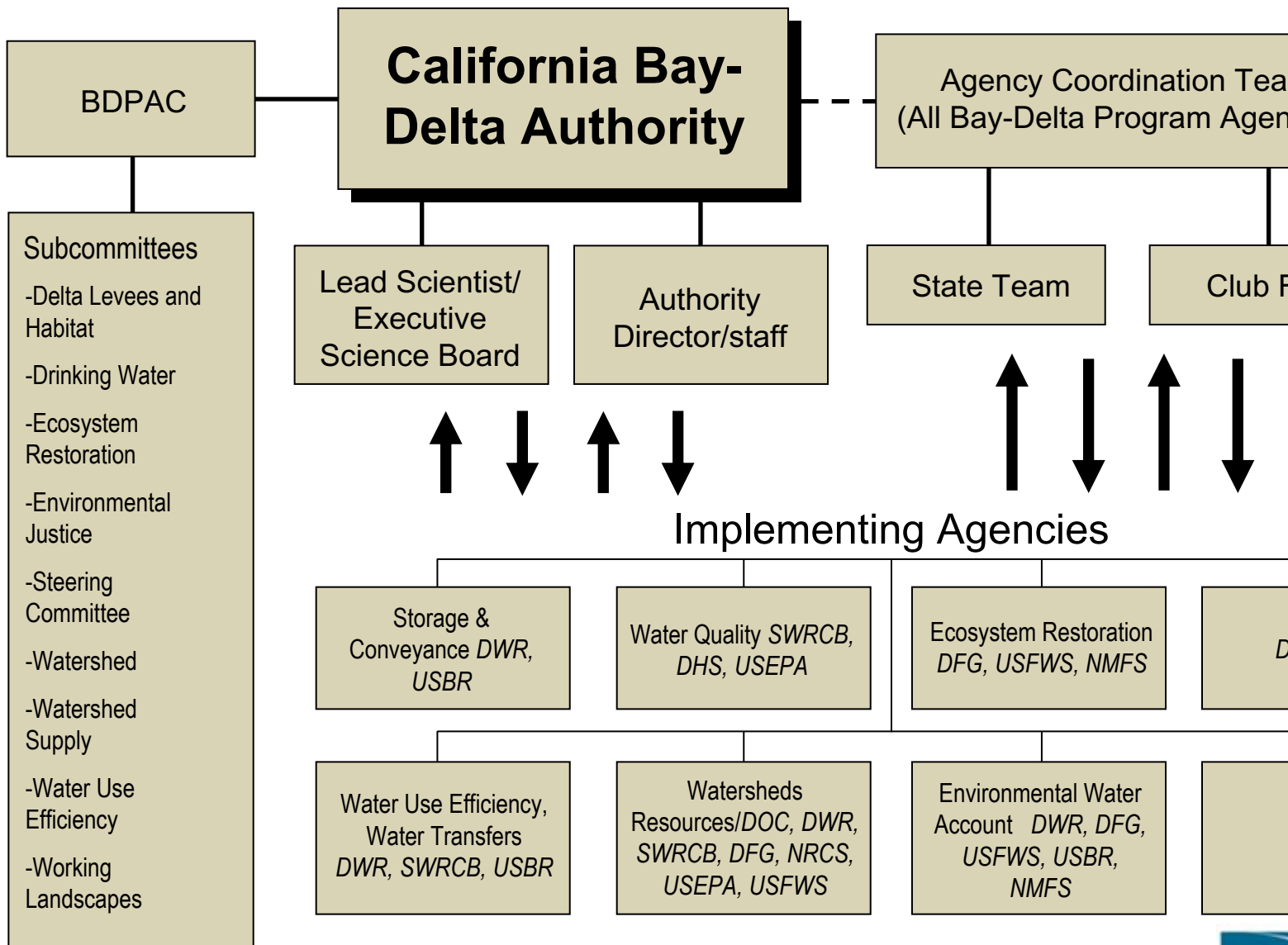


CALFED Bay-Delta Program Timeline

2030

*The CALFED Bay-Delta
Program is a complex
collaborative effort that
will take 30 years
to complete*

Program Structure



Resource Management Goals

Four resource management goals are implemented through 11 major program elements.



PROGRAM ELEMENTS

- Science
- Water Management
- Storage
- Conveyance
- Water Use Efficiency
- Water Transfers
- Ecosystem Restoration
- Environmental Water Account
- Watershed Management
- Drinking Water Quality
- Levee System Integrity



WATERSHED RESTORATION



FISH PASSAGE



WETLAND RESTORATION



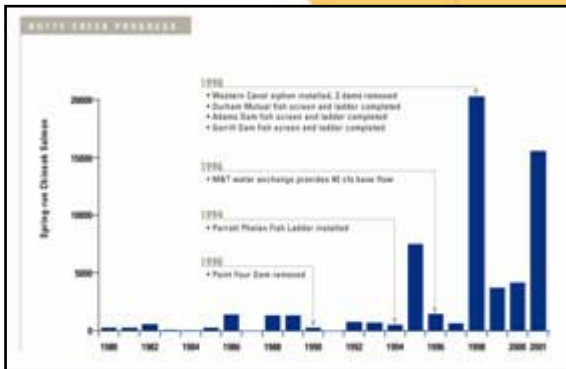
LEVEE PROTECTION AND WILDLIFE HABITAT RESTORATION

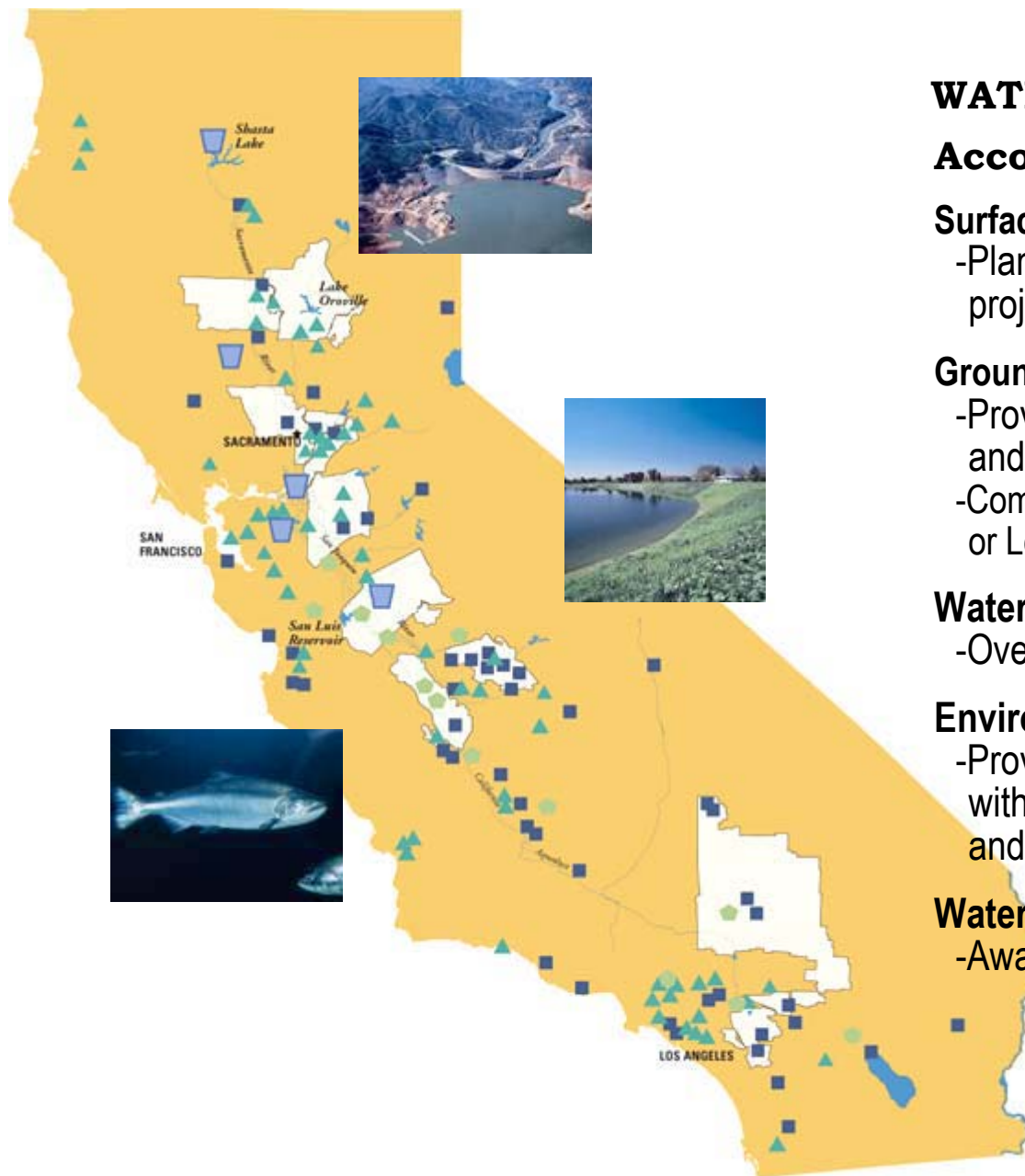


ECOSYSTEM RESTORATION AND WATERSHEDS

Accomplishments

- Established first-ever "single blue" coordinating resource management, conservation and regulatory act between state and federal agencies.
- Funded 382 ecosystem projects worth \$400 million.
- Began fish passage improvements on 182 river miles.
- Supported installation or improvement of fish screens to protect fish.
- Conducted 23 comprehensive studies.





WATER SUPPLY RELIABILITY

Accomplishments

Surface Storage

- Planning and feasibility studies for surface storage projects underway

Groundwater

- Provided \$74 million to assist in planning and implementing groundwater projects
- Completed 16 Memoranda of Understanding or Letters of Intent with 30 local agencies

Water Transfers

- Over 600,000 acre-feet of water transferred last year

Environmental Water Account

- Provided 250,000-300,000 acre-feet of water for environmental purposes without reducing allocations to farmers and cities

Water Use Efficiency

- Awarded \$68 million in first 2 years



WATER QUALITY

Accomplishments

- \$34 million invested in 21 Drinking Water projects for:

Source Protection

- Agriculture Drainage Treatment

Water Management

- Water Quality Exchanges for So. California (Friant-Met)
- Bay Area Water Quality and Supply Reliability Project

Treatment Technology

- Desalination Research and Innovation Partnership (MWD)
- Bromate Control with Carbon Dioxide
- Integrating UV light for Multiple Treatment

North Bay Aqueduct (incorporates all three improvement approaches)

Ecosystem Water Quality

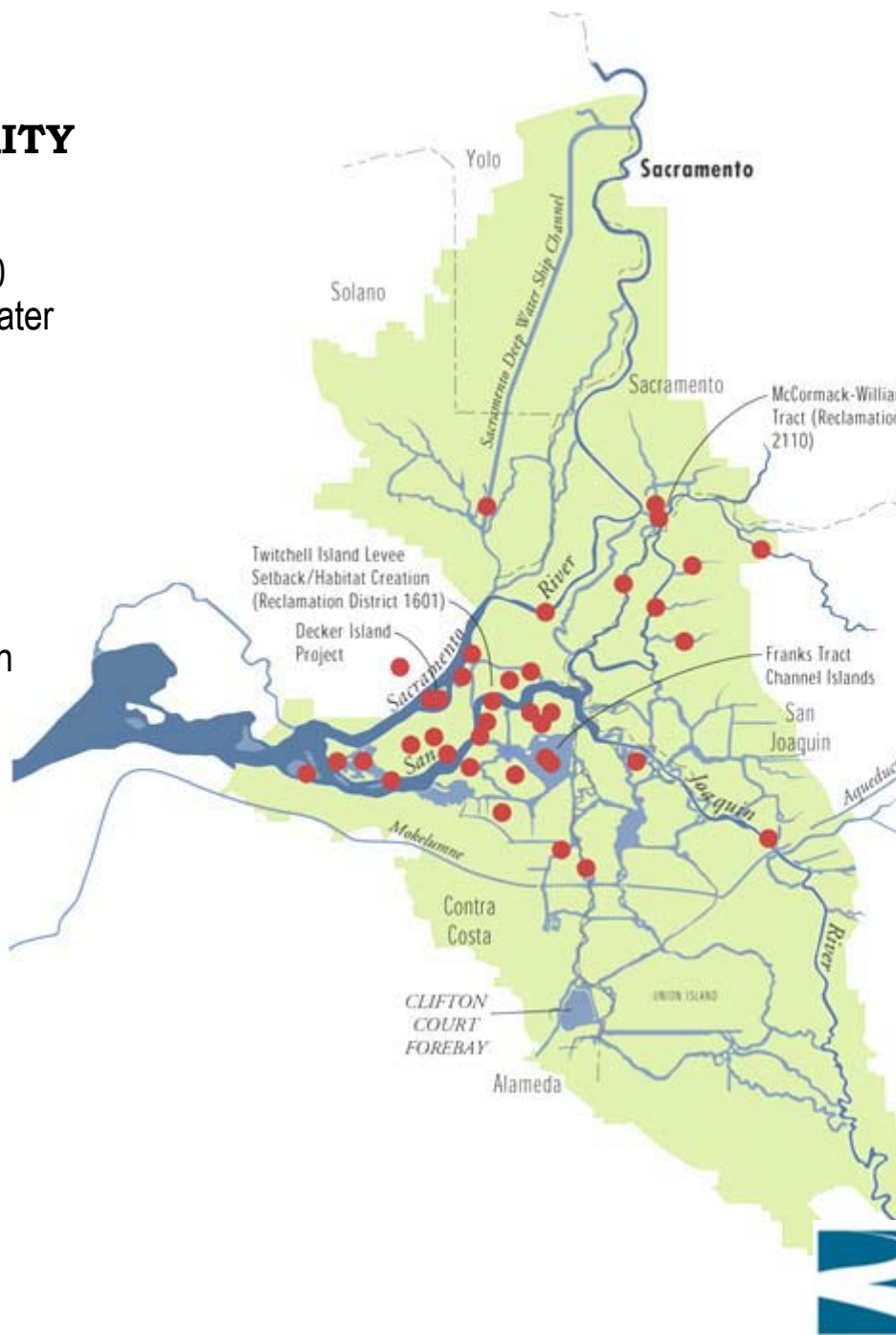
- San Joaquin River Dissolved Oxygen



LEVEE SYSTEM INTEGRITY

Accomplishments

- Improved Delta levees on over 50 Delta islands resulting in better water quality protection and greatly enhanced habitat conditions.
- Began Delta Risk Management Strategy and developed Emergency Management Plan.
- Awarded more than \$18 million in year 1 to improve levees on South Delta islands



Regional Water Initiative



- Maximizes local government involvement
- Improves program integration
- Addresses local issues and needs
- Provides greater access by local officials and electorate

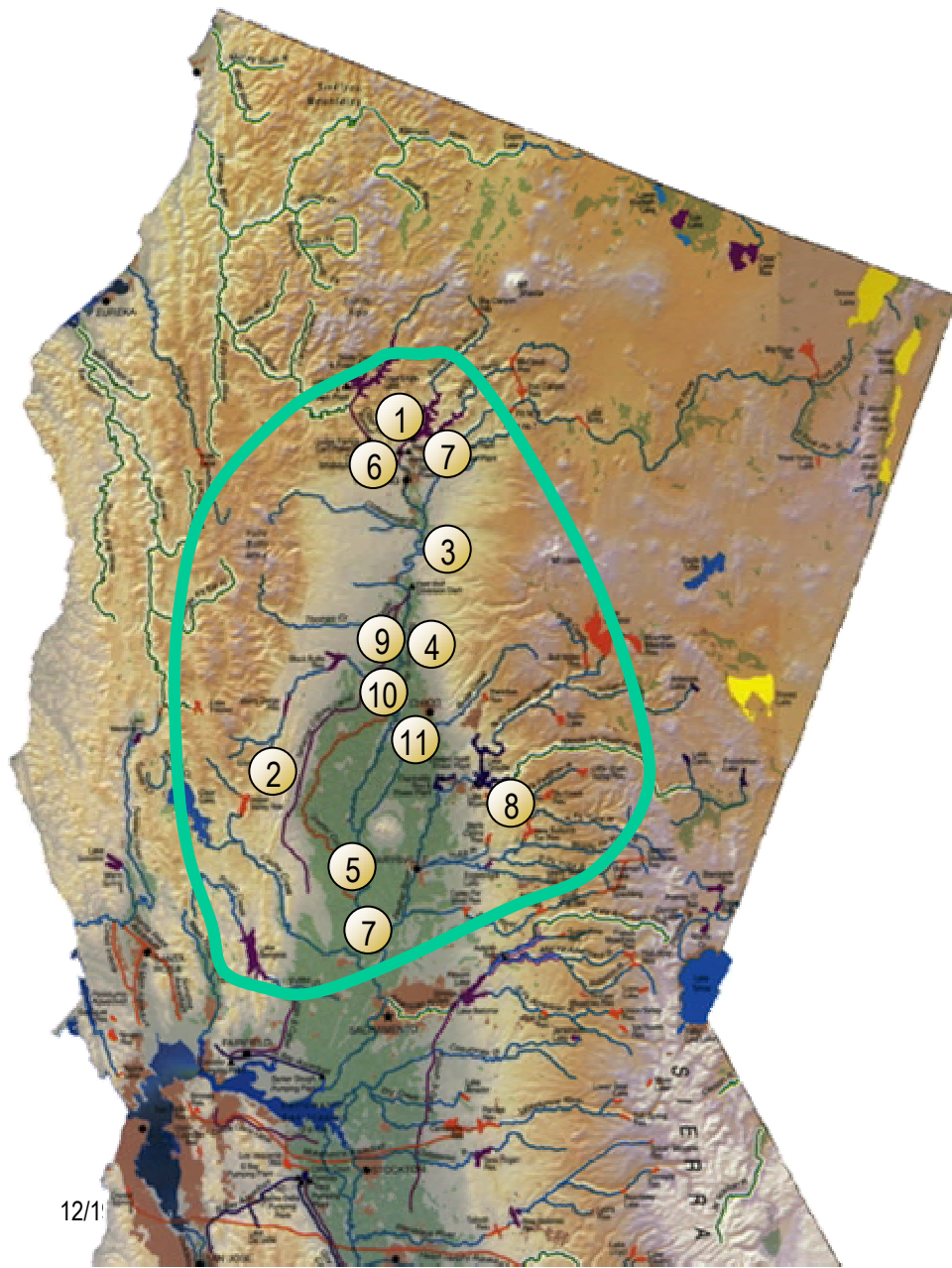


Implementing a Regional Water Initiative

- Provide technical and fiscal support to regional efforts
- Conduct statewide grant programs that require scientific, regional and public review
- Establish CALFED regional coordinators and agency regional teams
- Conduct regional workshops and outreach meetings
- Track implementation information on a regional basis
- Integrate regionally developed goals, objectives, and performance measures into CALFED implementation efforts.



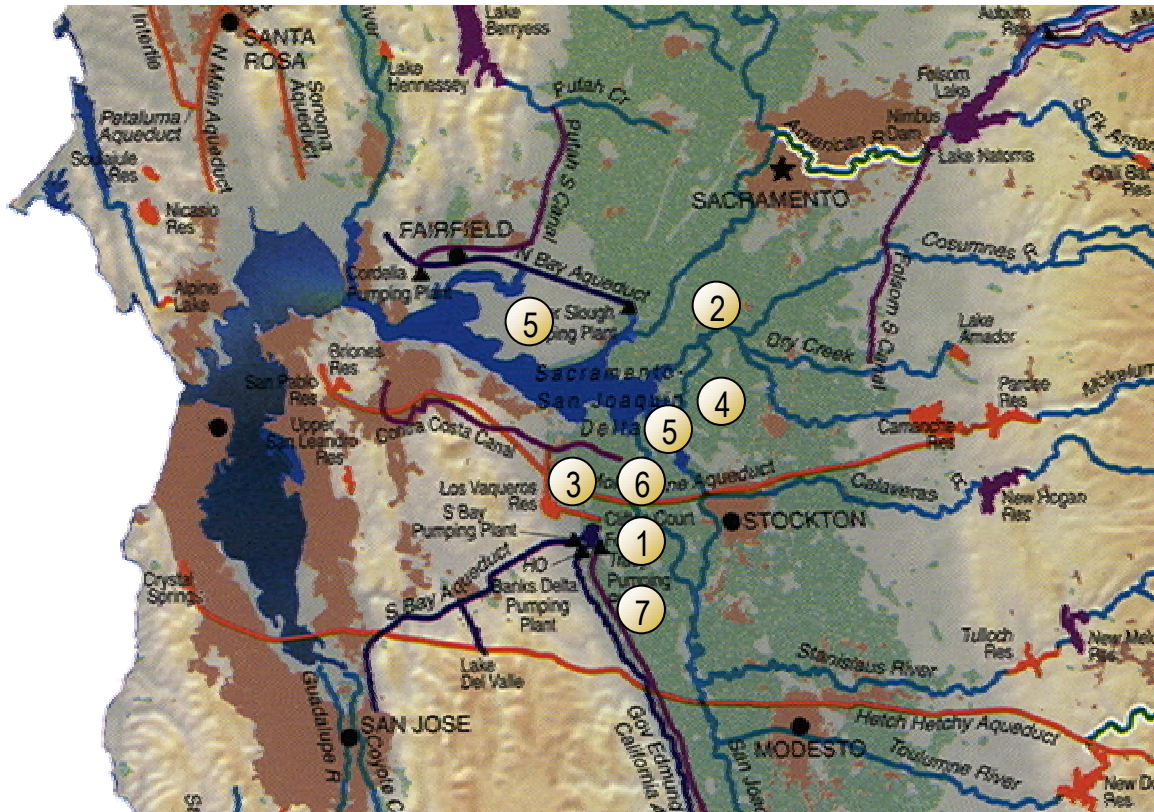
Sacramento Region



- ① Enlarge Shasta
- ② Sites Reservoir
- ③ Improve Red Bluff diversion facility
- ④ Improve riparian habitat in Sacramento and tributaries (Establish meanders)
- ⑤ Fund locally controlled groundwater
- ⑥ Remediate heavy metal sources
- ⑦ Implement flood management
- ⑧ Fund watershed programs
- ⑨ Fund Ecosystem Restoration Program
- ⑩ Screen diversions
- ⑪ Modify fish passage barriers



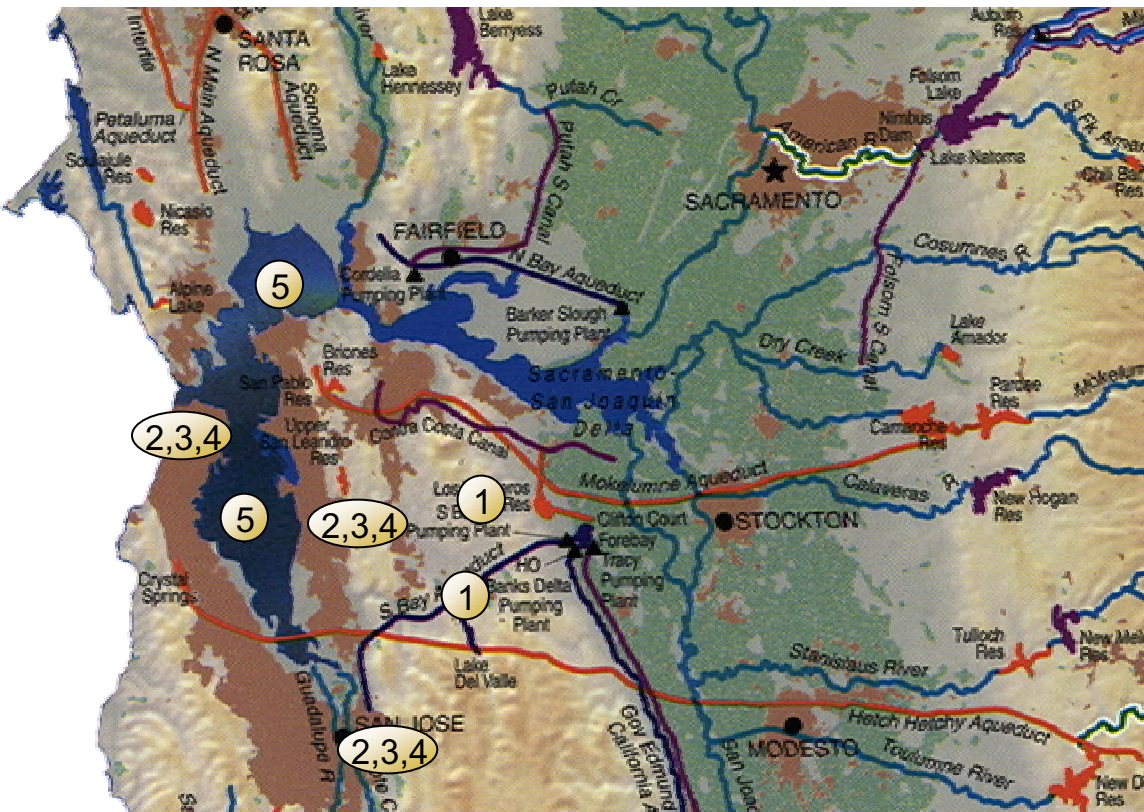
Delta Region



- ① Implement South Delta improvements
- ② Implement North Delta improvements
- ③ Implement In-or Near Delta Storage
- ④ Fund flood management
- ⑤ Fund habitat restoration
- ⑥ Fund environmental v
- ⑦ Construct CVP/SWP



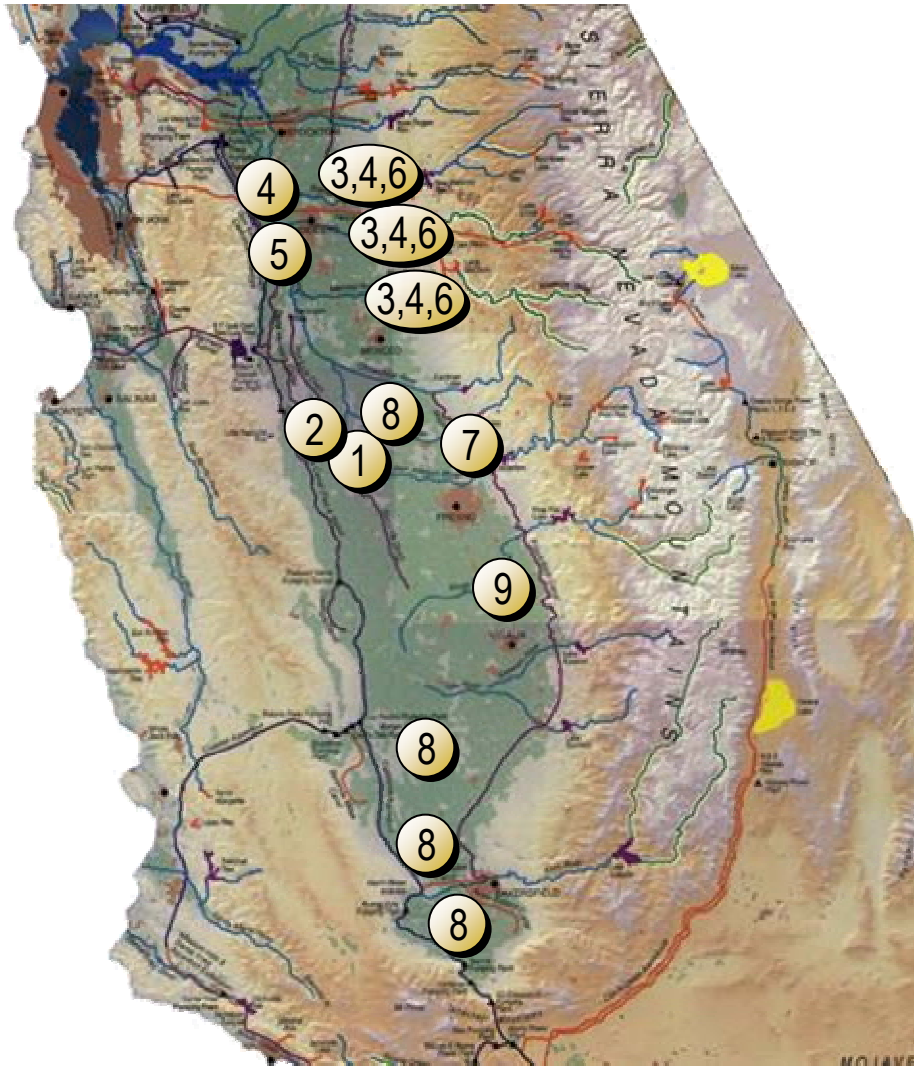
Bay Region



- 1 Implement Bay Area Water and Water Supply Reliability Program and evaluate impact of Los Vaqueros Reservoir
- 2 Fund water recycling
- 3 Expand water conservation
- 4 Improve water treatment
- 5 Fund habitat restoration and watershed management



San Joaquin Region

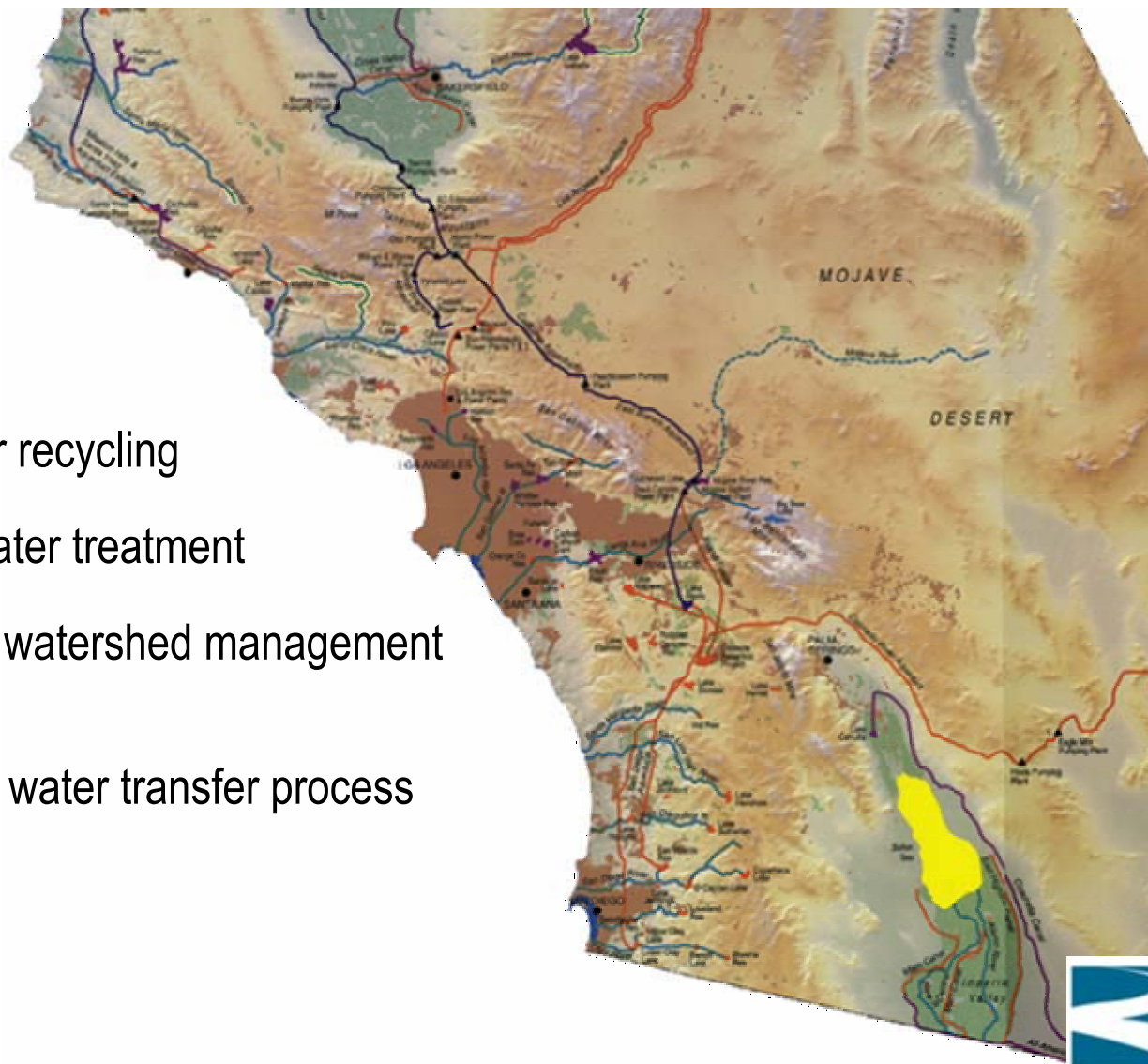


- ① Reestablish San Joaquin River
- ② Improve San Joaquin River riparian habitat
- ③ Improve tributary flows
- ④ Restore tributary habitat
- ⑤ Screen diversions
- ⑥ Implement flood management
- ⑦ Enlarge Friant Dam (or equivalent)
- ⑧ Fund locally controlled groundwater banking
- ⑨ Water quality exchange program



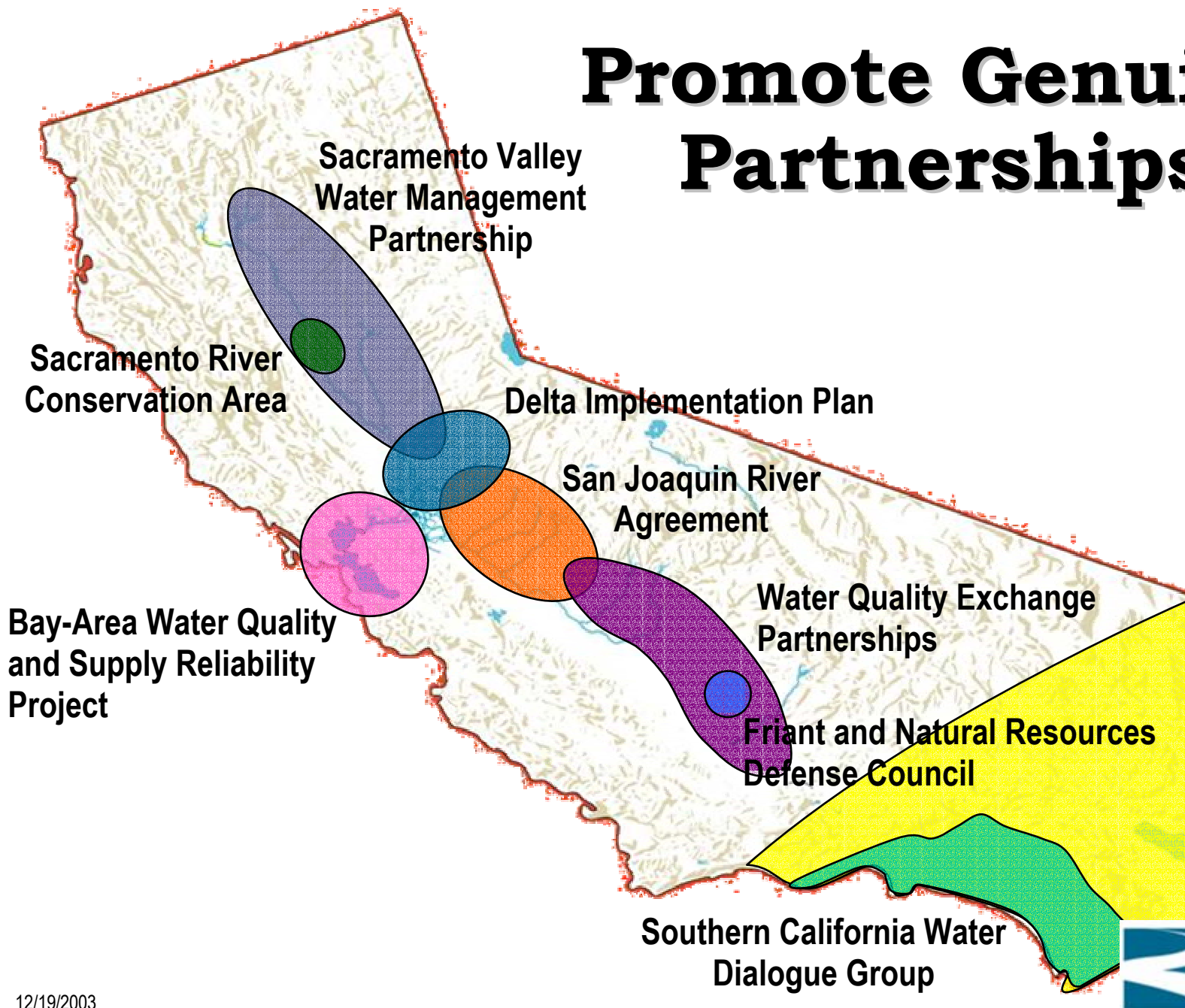
Southern California Region

- Fund water recycling
- Improve water treatment
- Implement watershed management programs
- Streamline water transfer process



12/19/2003

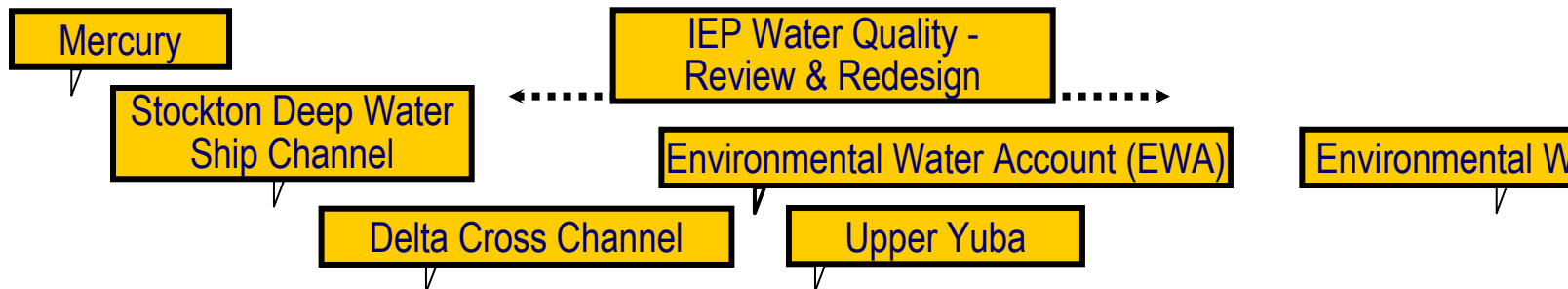
Promote Genuine Partnerships



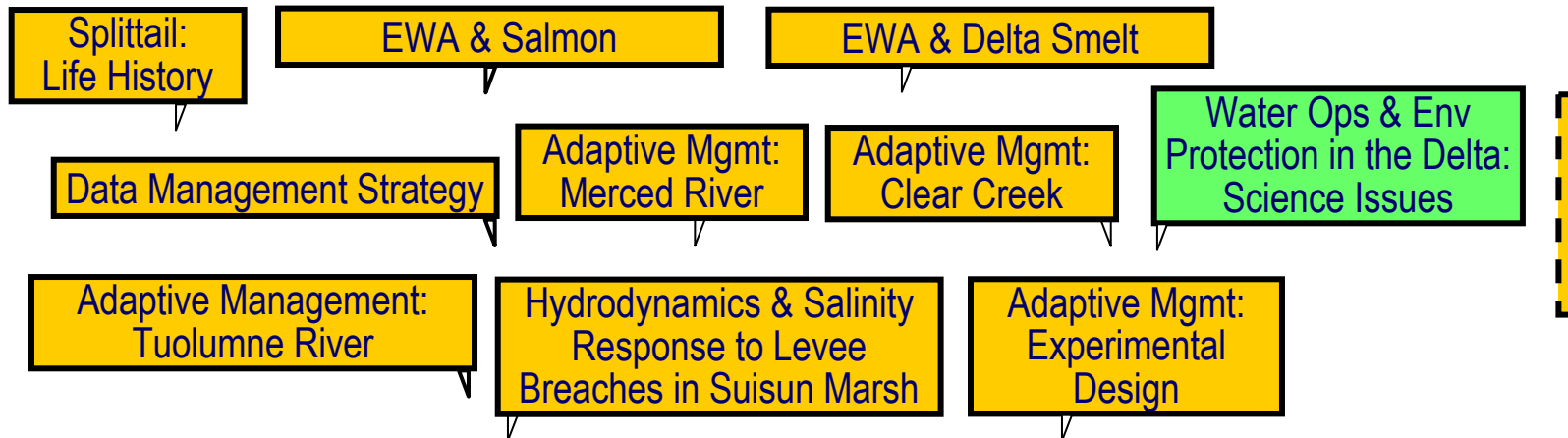
12/19/2003

CALFED Bay-Delta Science Program Action

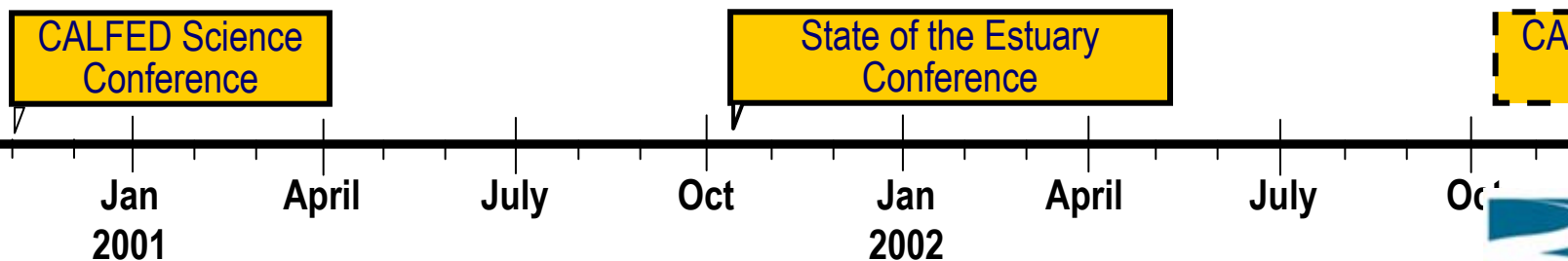
PROGRAM REVIEW



WORKSHOPS



CONFERENCES



12/19/2003



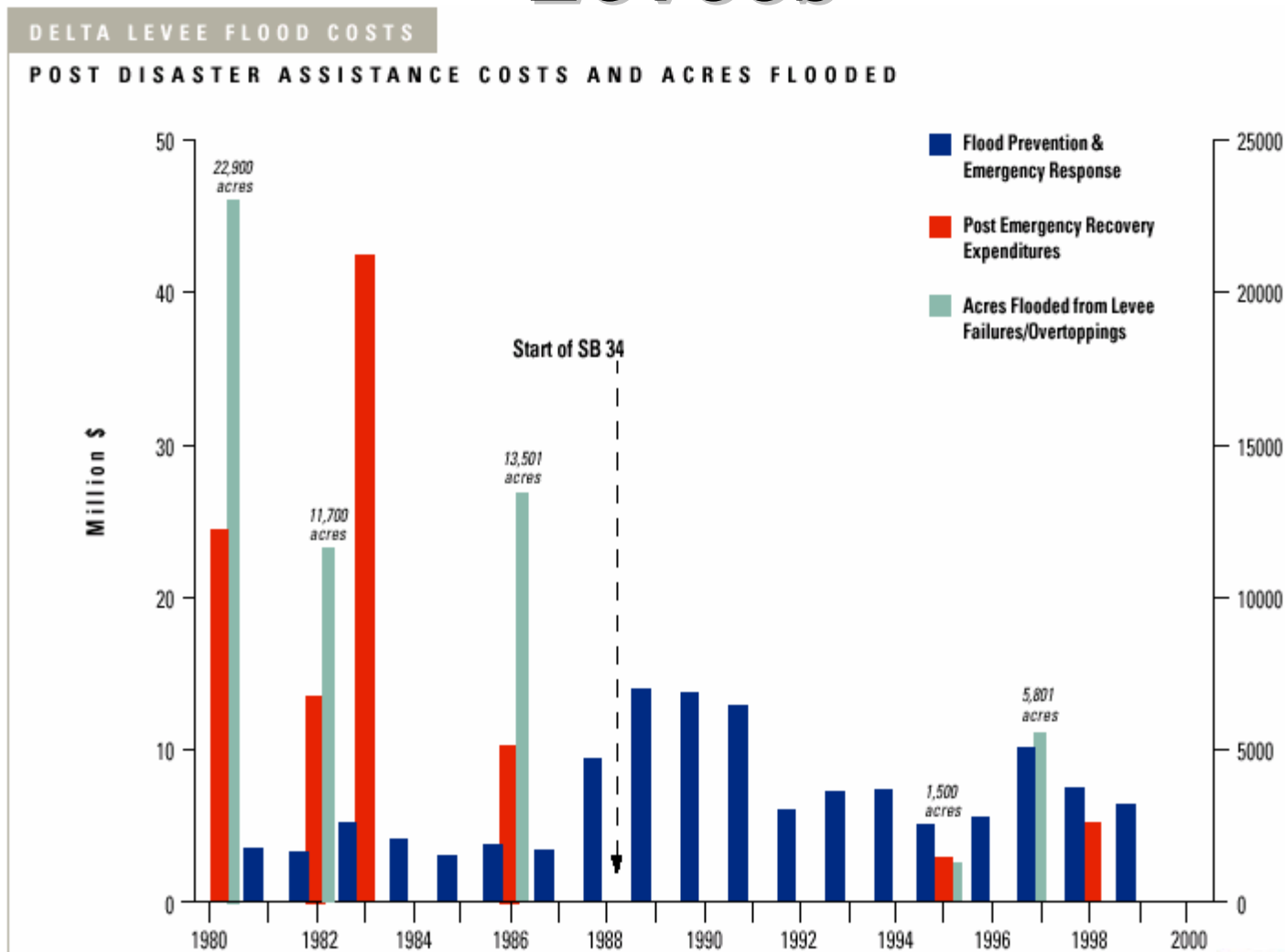
Bay-Delta Science Consortium Goals

- Common interests in expanding collaboration and cooperation in the pursuit of Bay/Delta science
- Improved access to common data, experience, facilities, outreach capabilities, infrastructure, etc
- Coordination and collaboration by providing an environmental and administrative structure that facilitates partnership dedicated to collaboration and coordination of research, outreach and monitoring
- Optimizing use of existing and new science facilities and infrastructure





Sample Performance Measure Levees



12/19/2003



Program Accountability and Measuring Success

The Bay-Delta Program uses performance measures to translate program goals and objectives into measurable benchmarks of success.



Primary Issues and Challenges

Program Wide

- Funding shortfall affecting all aspects of CALFED Program
- Governance legislation expected to enhance coordination and improve administration
- Development of Program-wide tracking system
- Coordination between BDPAC, its subcommittees, CALFED Elements, and CALFED agencies

Science

- Get CALFED Science Board up and running
- Science-based performance measures for each Program Element
- Independent science review of CALFED projects and programs

Overview - Program Wide

Ongoing Activities	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Governance Legislation	Design									
Bay-Delta Public Advisory Group										
Legal Support										
Contracts/Fiscal Support										
Public Affairs/Public Involvement										
Tribal Relations Project										
Environmental Justice										
Environmental Compliance										
Program Wide Performance/Tracking										
Working Landscapes Workgroup										
Regional Coordination										
Water Management Strategy										
Finance Plan										
Annual Report										
Web Development & Support										
State & Federal Agency Coordination										
Development -Education, Outreach & Training										
Consolidated Data Management										
BDPAC & Subcommittees										
Legislative & Congressional Outreach										
Coordination of Agency Tracking Info										

Overview - Science Program

Ongoing Activities	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Appoint Independent Science Board										
Develop Performance Measures										
Coordinate Monitoring & Research										
Refine Predictive Models										
Annual Science Report										
Annual EWA Review										

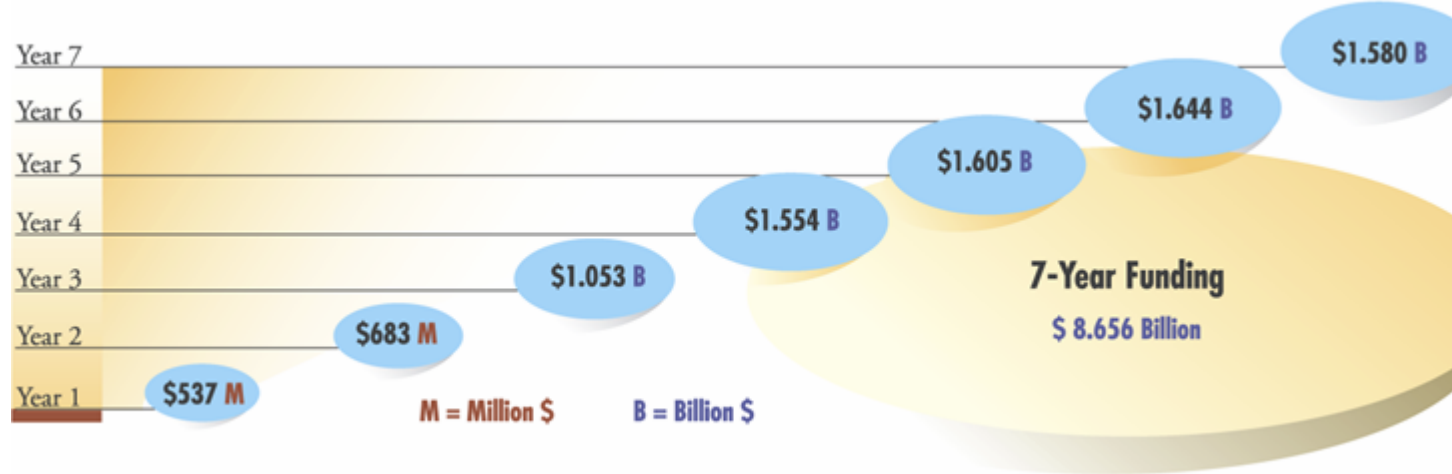
Legend

	EIS/EIR or Studies
	Authorization/Design
	Construction
	Continuous Operation/Implementation
	Major Milestone

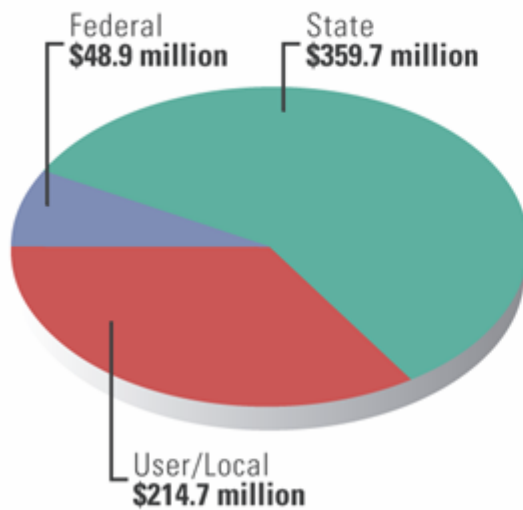


Fiscal Information

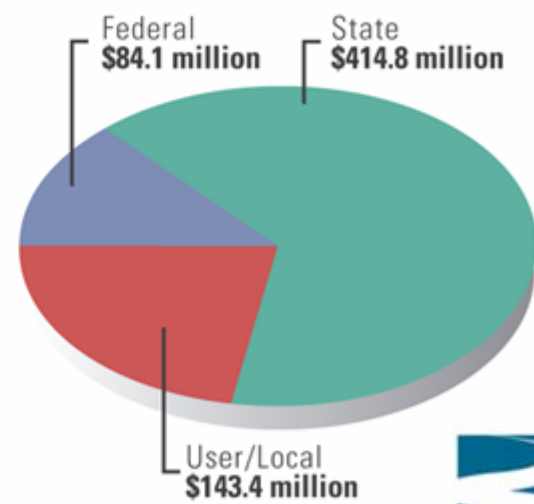
Projected Funding needs for Stage 1 (as proposed in the Record of Decision - August 2000)



Approved Year 1 Funding



Approved Year 2 Funding



Before CALFED	CALFED
• Gridlock and litigation driven process	• Collaborative process
• Project-by-project decisions	• Comprehensive framework with linkages and balancing requirements
• Single agency, single purpose projects	• Multiple purpose interagency projects
• Centralized decision making	• Emphasis on local and regional solutions
• Limited public involvement	• Extensive public involvement and learning
• Internal agency science-no peer review	• Independent science reviews
• Limited or no accountability or transparency	• Public governing body and planning and tracking systems

